# Ag in the Science Classroom

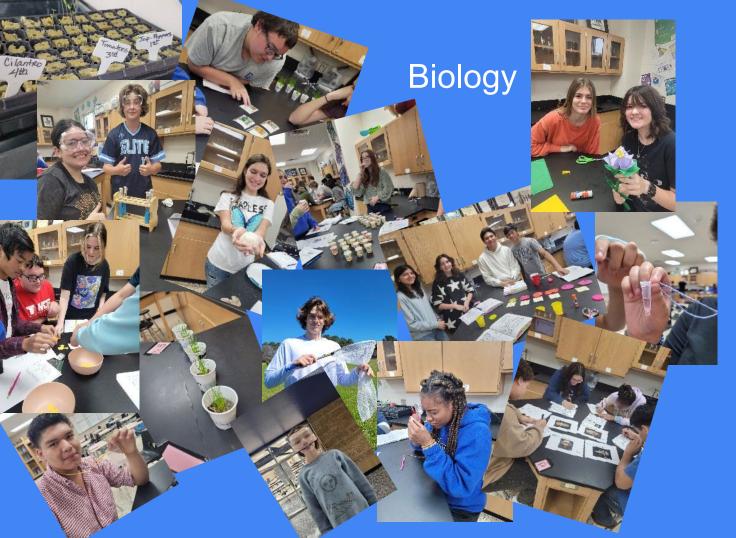
Michaelle Coker, Ed.D.



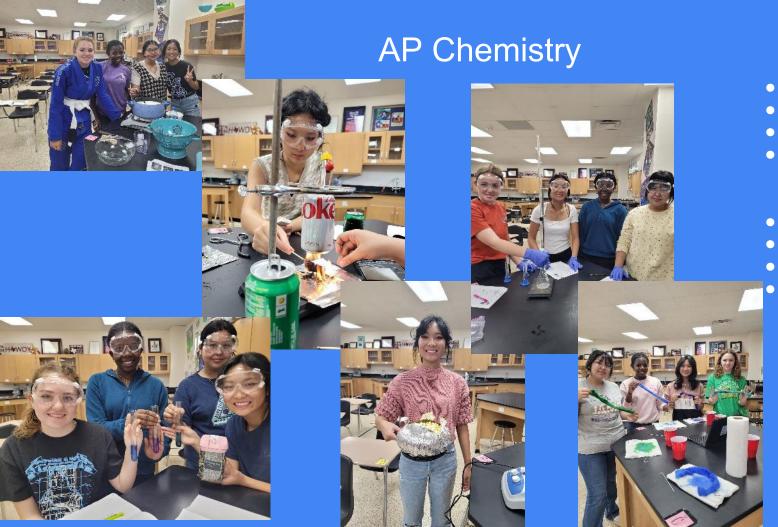
#### How to Incorporate Ag

- Ag is Life Wall
- T-TESS
- Same Concept-New Resources
  - https://texasmatrix.agclassroom.org/matrix/





- Hydroponics Garden
- Milk and Food Coloring
- The World is an Apple
- Souring Milk
- Bacterial Meat
- GMOs
- Bread Making
- Genes and their
  Environment
- Making a Champion-Equine
- Animal Breeding
- Apple Evolution
- Ag Trophic Levels
- Ranch Starter
- Good Buddies
- Oh Deer
- Living Necklaces
- Bug Hunt
- Nervous System
- Skeletal System
- Watermelon Mitosis and Meiosis
- Strawberry DNA
- Flower Origami
- Bug Hotels
- Beeswax Lip Balm
- Salsa Making
- Mealworm Wall Art



- Cheese Making
- Ice Cream
- Food Calorimetry
- Le Chatelier's
   Principle-Butterfly

   Pea Tea
- Titration-Aspirin
- Popcorn
- Wool Dyeing
- What's in Fertilizer



- Animal behavior
- Honey fermentation
- Potato and onion osmosis
- Who's the sire
- Leaf chromatography
- Cell signaling
- WI fast plants
- Predator-prey
- Termite behavior

## Biology

Cellular Processes (Energy)- Cellular Respiration- TEK 11A



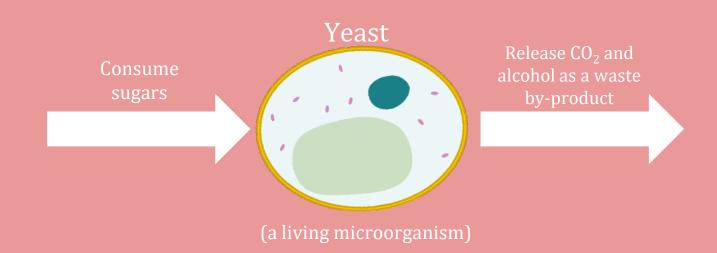
## What makes bread dough rise?

- Yeast is one ingredient that can make bread dough rise.
- When sugar is introduced to yeast, the sugars are metabolized and carbon dioxide gas and alcohol are released inside the dough, causing it to rise.



### How do yeast cells get energy?

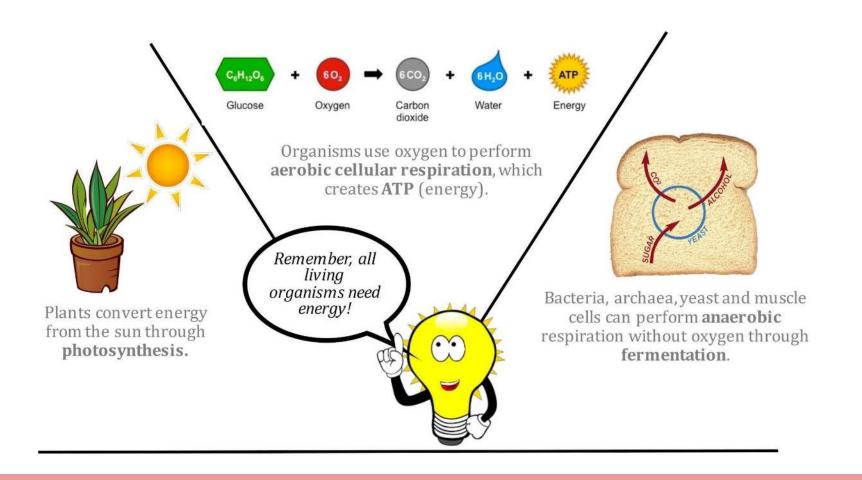
- Alcoholic fermentation
- The biological process that converts sugar into cellular energy.
- It produces alcohol and carbon dioxide as by-products

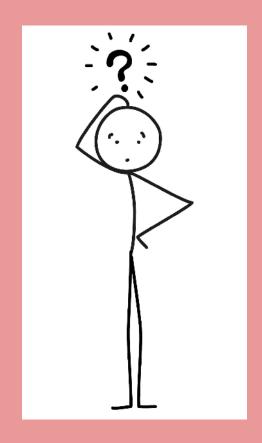


# What factors speed or slow the process of dough rising?

- Temperature
- Amount of sugar
- Amount of yeast
- Proportion of water to sugar/yeast







How can I make dough rise the fastest?